

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P840485

Luminaire Tested: **LD6C08D010 EU6089027 6LBCSSQMMS**

Issue Date: 5/25/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P840485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209457)
Test Lab: INNOVATION CENTER
Issue Date: 5/25/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C08D010 EU6089027 6LBCSSQMMS
Description: 6 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND 6LBCSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

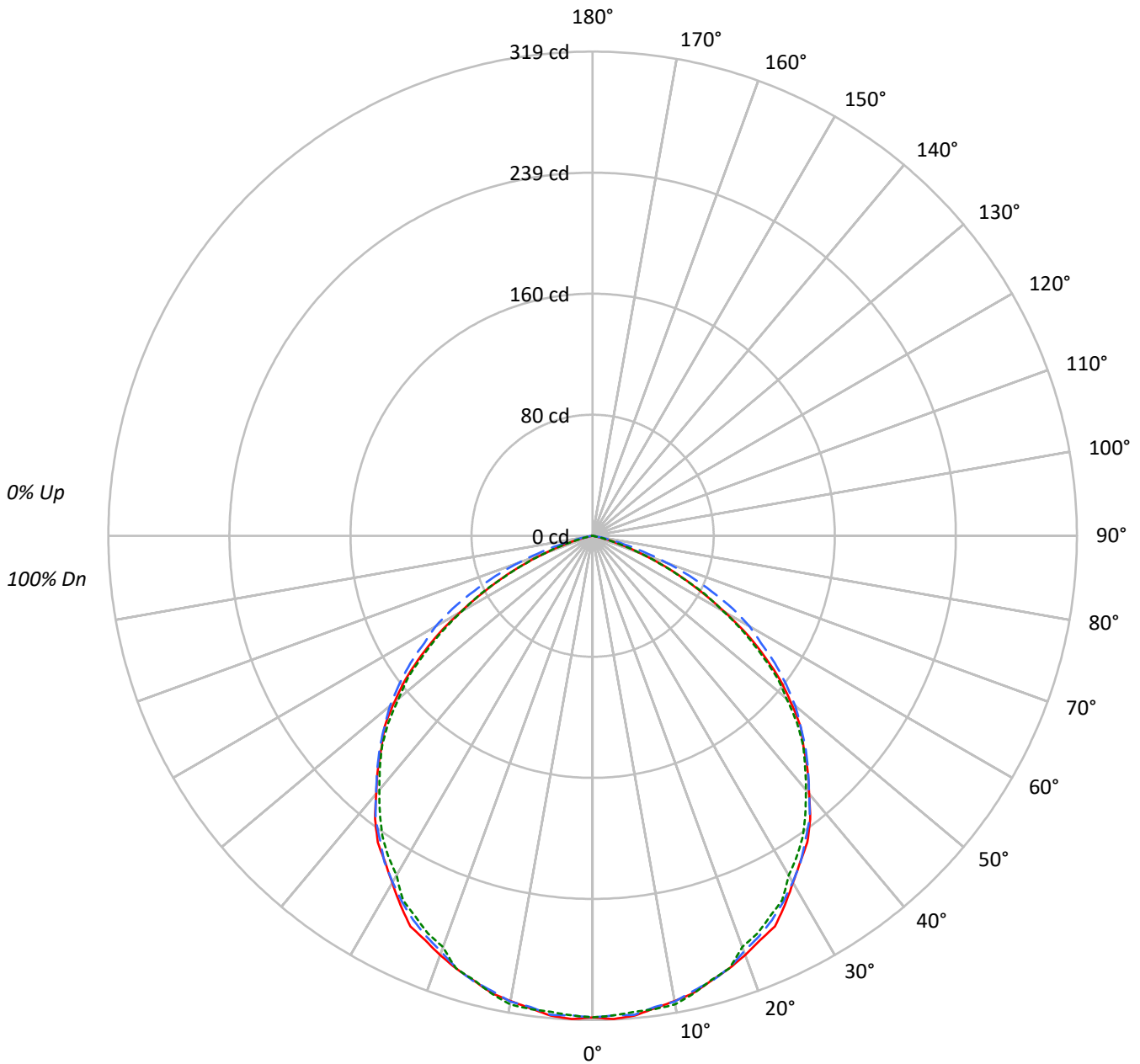
Lumens per Lamp: N/A
Luminaire Lumens: 766.0 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
Input Voltage (V):
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75								
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64								
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56								
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49								
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43								
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38								
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34								
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31								
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13662	13662	13662
5°	13714	13692	13610
10°	13606	13627	13706
15°	13515	13537	13497
20°	13466	13356	13210
25°	13492	13273	13140
30°	13120	13100	12842
35°	12962	12841	12694
40°	12466	12466	12281
45°	11965	12081	11941
50°	11407	11662	11159
55°	10359	10997	10119
60°	8663	10273	8542
65°	6632	8772	6581
70°	4129	6483	4179
75°	1564	3510	1481
80°	124	570	124
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.0	3.9
10°-20°	85.6	11.2
20°-30°	128.8	16.8
30°-40°	152.3	19.9
40°-50°	152.0	19.8
50°-60°	126.0	16.5
60°-70°	73.6	9.6
70°-80°	17.5	2.3
80°-90°	0.1	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	244.3	31.9
0°-40°	396.6	51.8
0°-60°	674.7	88.1
0°-90°	766.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	766.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	317	317	317	317	317	
5°	317	316	317	316	315	30
15°	303	303	304	302	303	86
25°	284	281	279	278	277	130
35°	247	244	244	243	242	153
45°	196	197	198	196	196	152
55°	138	143	146	142	135	123
65°	65	73	86	73	65	65
75°	9	14	21	13	9	13
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	317.3	317.3	317.3	317.3	317.3	317.3	317.3	317.3	317.3	317.3	317.3
2.5°	318.7	316.8	318.2	315.4	317.3	315.4	315.9	314.9	316.8	316.3	315.9
5°	317.3	317.7	316.8	317.7	316.3	314.9	316.3	315.4	312.6	316.8	315.9
7.5°	314.0	314.5	313.5	314.9	314.0	312.1	315.9	313.1	312.6	313.1	314.9
10°	311.2	312.1	311.7	311.2	311.7	311.7	310.7	309.3	310.7	311.7	311.2
12.5°	308.4	309.8	308.8	307.9	307.0	307.4	308.4	306.0	306.0	307.0	309.8
15°	303.2	304.2	304.6	302.8	302.8	303.2	305.1	301.4	303.2	303.7	304.2
17.5°	299.0	299.5	299.5	298.1	299.0	297.6	299.0	297.1	299.0	298.6	299.5
20°	293.9	294.8	293.9	293.9	292.9	293.4	293.4	293.4	292.0	291.5	292.5
22.5°	288.3	288.3	287.3	288.3	287.3	286.9	289.2	285.5	289.2	285.9	288.7
25°	284.0	281.7	280.3	279.8	281.7	279.8	280.8	279.4	280.3	279.4	279.8
27.5°	274.2	272.8	272.3	272.8	272.8	272.3	274.2	269.1	272.3	271.9	271.9
30°	263.9	263.9	264.9	263.9	264.9	263.5	265.3	261.1	263.9	263.5	263.9
32.5°	254.6	255.0	255.0	256.0	254.6	255.0	255.0	253.6	254.6	255.0	254.1
35°	246.6	244.3	244.3	244.3	244.3	244.3	245.2	243.8	245.2	244.3	244.3
37.5°	235.4	233.0	233.0	232.6	234.9	233.5	235.8	234.0	234.0	234.9	234.9
40°	221.8	222.7	221.3	223.2	222.7	220.9	225.1	222.3	224.1	221.8	223.7
42.5°	209.6	210.1	209.6	209.2	211.0	210.6	212.4	210.6	210.1	210.1	213.4
45°	196.5	196.5	196.5	197.9	196.5	197.0	198.9	197.9	198.9	198.4	201.7
47.5°	185.8	183.4	183.0	185.8	185.3	185.8	185.8	186.2	186.7	185.8	187.2
50°	170.3	169.4	169.4	169.9	170.3	171.3	172.7	173.6	172.7	174.1	174.5
52.5°	155.4	154.4	154.9	156.8	157.7	157.2	159.6	160.0	159.6	160.5	160.5
55°	138.0	137.1	138.5	140.9	142.3	143.7	146.0	144.1	146.0	146.5	146.9
57.5°	120.3	119.8	120.3	122.6	124.0	127.3	131.0	131.0	132.9	131.5	132.9
60°	100.6	100.6	102.5	103.9	107.6	110.0	113.7	115.6	117.5	119.3	118.4
62.5°	81.9	82.4	83.8	87.0	89.4	92.7	96.9	98.7	102.0	103.9	102.9
65°	65.1	65.1	66.0	68.8	71.1	75.3	79.1	83.3	85.2	86.1	86.6
67.5°	48.7	48.2	50.1	52.0	54.3	58.5	62.7	65.1	68.3	69.3	68.8
70°	32.8	33.2	34.2	36.0	38.8	42.1	46.8	48.7	50.5	51.5	50.5
72.5°	20.6	20.6	21.1	22.9	24.8	27.1	30.4	32.3	34.6	35.1	34.2
75°	9.4	9.4	10.3	11.2	12.6	14.5	16.9	18.2	19.6	21.1	21.1
77.5°	1.9	2.3	2.8	2.8	3.7	5.2	6.5	7.9	9.4	9.4	9.4
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.9	1.4	2.3	2.3	2.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	317.3	317.3	317.3	317.3	317.3	317.3	317.3	317.3
2.5°	317.3	320.1	317.3	315.9	317.7	317.3	315.9	316.3
5°	315.9	316.8	317.7	314.0	316.3	316.8	315.9	314.9
7.5°	314.5	314.9	314.5	313.5	313.5	313.5	314.5	314.5
10°	314.0	312.6	310.3	308.8	310.3	310.3	309.8	313.5
12.5°	307.9	309.8	308.4	305.6	308.4	307.9	307.9	308.8
15°	303.2	303.2	304.2	300.4	302.3	301.8	301.8	302.8
17.5°	298.6	298.6	298.1	297.1	296.7	298.1	296.7	299.0
20°	292.0	292.9	295.7	291.1	292.5	291.1	291.1	288.3
22.5°	284.0	288.7	286.4	285.9	285.5	285.9	286.9	283.6
25°	278.9	278.9	279.8	277.0	277.0	278.0	277.5	276.6
27.5°	271.9	271.4	270.9	270.0	272.3	270.5	270.5	270.5
30°	262.1	263.5	263.0	260.6	263.5	262.5	261.1	258.3
32.5°	253.6	255.5	252.7	252.2	251.8	252.2	252.7	250.4
35°	243.3	243.8	243.8	241.9	242.4	241.9	241.0	241.5
37.5°	234.0	233.5	231.2	230.2	230.7	230.7	231.2	230.2
40°	220.9	222.3	222.3	219.0	219.9	219.0	219.0	218.5
42.5°	210.1	210.6	209.2	207.8	207.8	207.3	206.4	207.3
45°	198.9	198.4	197.0	195.6	195.6	195.1	194.2	196.1
47.5°	186.2	185.3	184.8	183.0	183.0	180.2	180.6	182.5
50°	173.6	172.7	170.8	169.9	168.5	167.1	166.6	166.6
52.5°	158.6	158.6	156.8	154.9	154.4	153.5	152.5	153.0
55°	145.5	145.5	144.1	140.9	139.0	136.6	135.2	134.8
57.5°	130.6	129.6	126.8	123.1	121.2	119.3	117.9	117.9
60°	115.6	113.2	110.4	107.2	103.9	100.6	99.7	99.2
62.5°	99.2	96.9	91.7	88.0	85.6	83.8	81.9	83.3
65°	82.8	79.5	74.9	71.1	68.8	66.0	64.6	64.6
67.5°	65.5	62.2	57.6	53.8	51.5	49.6	47.7	47.7
70°	48.2	45.9	41.6	38.4	36.5	33.7	33.2	33.2
72.5°	32.8	29.9	26.7	24.3	22.5	20.6	19.6	19.2
75°	18.2	16.4	14.0	12.6	10.8	9.8	8.9	8.9
77.5°	7.5	6.1	4.7	3.7	2.8	2.3	1.9	2.3
80°	1.4	0.9	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°









(END OF REPORT)